



**SJVUAPCD AUTHORITY TO CONSTRUCT PERMIT APPLICATION FORMS
FOR GWF HENRIETTA**

San Joaquin Valley Air Pollution Control District

www.valleyair.org

Permit Application For:

- ☒ AUTHORITY TO CONSTRUCT (ATC) - New Emission Unit.
☐ AUTHORITY TO CONSTRUCT (ATC) - Modification Of Emission Unit With Valid PTO/Valid ATC.
☐ AUTHORITY TO CONSTRUCT (ATC) - Renewal of Valid Authority to Construct.
☐ PERMIT TO OPERATE (PTO) - Existing Emission Unit Now Requiring a Permit to Operate.

1. PERMIT TO BE ISSUED TO: GWF Energy LLC – Henrietta Peaker Project (Power Plant)		
2. MAILING ADDRESS: 4300 Railroad Avenue STREET/P.O. BOX: _____ CITY: <u>Pittsburg</u> STATE: <u>CA</u> 9-DIGIT ZIP CODE: <u>94565-6006</u>		
3. LOCATION WHERE THE EQUIPMENT WILL BE OPERATED: STREET: <u>25th Avenue, 1 mile south of SR 198</u> CITY: <u>Lemoore, CA</u> <u>NW</u> /4 SECTION <u>34</u> TOWNSHIP <u>19 S</u> RANGE <u>19 E</u>		WITHIN 1,000 FT OF A SCHOOL? [] YES [X] NO S.I.C. CODE(S) OF FACILITY (If known): 4911
4. GENERAL NATURE OF BUSINESS: Power Generation		INSTALL DATE: 6/02
5. TITLE V PERMIT HOLDERS ONLY: Do you request a COC (EPA Review) prior to receiving your ATC? [] YES [X] NO		
6. DESCRIPTION OF EQUIPMENT OR MODIFICATION FOR WHICH APPLICATION IS MADE (include Permit #'s if known, and use additional sheets if necessary): Two G.E. 46.9 MW LM6000 PC Sprint natural gas turbine, simple cycle, PEAKER unit.		
7. HAVE YOU EVER APPLIED FOR AN ATC OR PTO IN THE PAST? [] YES [X] NO If yes, ATC/PTO #: _____ See Section 1.0	8. IS THIS PROPERTY ZONED PROPERLY FOR THE PROPOSED USE? [X] YES [] NO	Optional Section 10 CHECK WHETHER YOU ARE A PARTICIPANT IN EITHER OF THESE VOLUNTARY PROGRAMS: "SPARE THE AIR" [] Yes [] No [] Send info "INSPECT" [] Yes [] No [] Send info  
9. IS THIS APPLICATION SUBMITTED AS THE RESULT OF EITHER A NOTICE OF VIOLATION OR A NOTICE TO COMPLY? [] YES [X] NO If yes, NOV/NTC #: _____		
11. TYPE OR PRINT NAME OF APPLICANT: Douglas Wheeler		TITLE OF APPLICANT: Vice President
12. SIGNATURE OF APPLICANT: _____ DATE: 8/23/01		PHONE #: (925) 431-1443 FAX #: (925) 431-0518 E-MAIL: dwheeler@gwfpower.com

FOR APCD USE ONLY:

DATE STAMP	FILING FEE RECEIVED: \$ _____ CHECK #: _____ DATE PAID: _____ PROJECT #: _____ FACILITY ID: _____
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**San Joaquin Valley Unified Air Pollution Control District
Supplemental Application Form**

BOILERS, STEAM GENERATORS, DRYERS, & PROCESS HEATERS

This form must be accompanied by a completed Application for Authority to Construct and Permit to Operate form.

PERMIT TO BE ISSUED TO: GWF Energy LLC - Henrietta Peaker Project (Power Plant) Unit 1

LOCATION WHERE THE EQUIPMENT WILL BE OPERATED: 25th Avenue, 1 mile south of SR 198, Lemoore, CA

EQUIPMENT DESCRIPTION

Type of Equipment	<input type="checkbox"/> Boiler <input checked="" type="checkbox"/> Other: Gas Turbine Generator Unit #1		
Equipment Data	Manufacturer: General Electric		
	Model: LM6000 PC Sprint		Serial No.:
	Boilers Only	Steam: PPH at: psig	bhp

Gaseous Fuel Burner	Manufacturer: General Electric		
	Model: LM6000 PC Sprint		Serial No.:
	Maximum Heat Input Rating: 459.6 MMBtu/hr HHV, 63°F & 60% humidity		
	Flue Gas Recirculation: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Forced <input type="checkbox"/> Induced %		
	O ₂ Controller: <input type="checkbox"/> Yes <input type="checkbox"/> No		Manufacturer:
Source 1 Emissions details.	Type: Natural Gas		<i>(Omit Sulfur Content for Public Utility Natural Gas)</i>
	Higher Heating Value: 1030 Btu/scf		Sulfur Content: <0.25 gr/100 scf
	Exhaust Data	Flow: 135,00 (wet) acfm	Temp: 822 °F O ₂ , dry: %
	Emission Data <i>(If corrected to other than 3% O₂, dry basis, indicate at right)</i>		O ₂ , dry: 15 %
	Nitrogen Oxides (as NO₂)		3.6 ppmvd 0.014 lb/MMBtu
	Carbon Monoxide		6 ppmvd 0.013 lb/MMBtu
	Volatile Organic Compounds (as CH₄)		2 ppmvd 0.003 lb/MMBtu
	Type: Natural gas		
	Higher Heating Value: Btu/scf		Sulfur Content: <0.25 gr/100 scf
	Exhaust Data	Flow: acfm	Temp: F O ₂ , dry: %
	Emission Data <i>(If corrected to other than 3% O₂, dry basis, indicate at right)</i>		O ₂ , dry: 15 %
	Nitrogen Oxides (as NO₂)		ppmvd lb/MMBtu
	Carbon Monoxide		ppmvd lb/MMBtu
	Volatile Organic Compounds (as CH₄)		ppmvd lb/MMBtu

Liquid Fuel Burner	Manufacturer:			
	Model:		Serial No.:	
	Maximum Heat Input Rating:			Btu/hr
	Flue Gas Recirculation: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Forced <input type="checkbox"/> Induced %			
	O ₂ Controller: <input type="checkbox"/> Yes <input type="checkbox"/> No		Manufacturer:	
Primary Fuel	Type:		API Gravity:	
	Higher Heating Value: Btu/gal		Sulfur Content: % by Wt	
	Exhaust Data	Flow: acfm	Temp: °F	O ₂ , dry: %
	Emission Data (If corrected to other than 3% O ₂ , dry basis, indicate at right)			O ₂ , dry: %
	Nitrogen Oxides (as NO₂)		ppmvd	lb/MMBtu
	Carbon Monoxide		ppmvd	lb/MMBtu
	Volatile Organic Compounds (as CH₄)		ppmvd	lb/MMBtu
Secondary Fuel	Type:		API Gravity:	
	Higher Heating Value: Btu/gal		Sulfur Content: % by Wt	
	Exhaust Data	Flow: acfm	Temp: °F	O ₂ , dry: %
	Emission Data (If corrected to other than 3% O ₂ , dry basis, indicate at right)			O ₂ , dry: %
	Nitrogen Oxides (as NO₂)		ppmvd	lb/MMBtu
	Carbon Monoxide		ppmvd	lb/MMBtu
	Volatile Organic Compounds (as CH₄)		ppmvd	lb/MMBtu

ADDITIONAL INFORMATION

1. **Operating Schedule:** 24 Hours per day 7 Days per week 52 Weeks per year. 8,000 hours/
2. **Fuel Flow Meter(s):** ☒ Gaseous Fuel ☐ Liquid Fuel year
3. **Nearest Receptor:**

Distance to nearest Residence¹ 7920 feet

Distance to nearest Business² 3696 feet

¹ Examples of Residences includes apartments, houses, dormitories, etc.

² Examples of Businesses includes office buildings, guard posts, factories, etc.

4. **Stack Parameters:** Height 85 feet Inside diameter 126 inches
Is a rain cap present on exhaust stack? ☐ Yes ☒ No
Direction of exhaust from structure or device: ☒ Vertical ☐ Horizontal

5. **Facility Location:** ☐ Urban (area of dense population) ☒ Rural (area of sparse population)

6. **Describe any additional air pollution control equipment or technologies, including control efficiencies, on a separate sheet and submit it along with this form.**

See CEC Application For Certification – Henrietta Peaker Project, submitted August 27, 2001

**San Joaquin Valley Unified Air Pollution Control District
Supplemental Application Form**

BOILERS, STEAM GENERATORS, DRYERS, & PROCESS HEATERS

This form must be accompanied by a completed Application for Authority to Construct and Permit to Operate form.

PERMIT TO BE ISSUED TO: GWF Energy LLC - Henrietta Peaker Project (Power Plant) Unit 2

LOCATION WHERE THE EQUIPMENT WILL BE OPERATED: 25th Avenue, 1 mile south of SR 198, Lemoore, CA

EQUIPMENT DESCRIPTION

Type of Equipment	[] Boiler [X] Other: Gas Turbine Generator Unit #2		
Equipment Data	Manufacturer: General Electric		
	Model: LM6000 PC Sprint		Serial No.:
	Boilers Only	Steam: PPH at: psig	bhp

Gaseous Fuel Burner	Manufacturer: General Electric		
	Model: LM6000 PC Sprint		Serial No.:
	Maximum Heat Input Rating: 459.6 MMBtu/hr HHV , 63°F & 60% humidity		
	Flue Gas Recirculation: [] Yes [] No [] Forced [] Induced %		
	O ₂ Controller: [] Yes [] No		Manufacturer:
Source 1 Emissions details.	Type: Natural Gas		<i>(Omit Sulfur Content for Public Utility Natural Gas)</i>
	Higher Heating Value: 1030 Btu/scf		Sulfur Content: <0.25 gr/100 scf
	Exhaust Data	Flow: 135,00 (wet) acfm	Temp: 822 °F O ₂ , dry: %
	Emission Data <i>(If corrected to other than 3% O₂, dry basis, indicate at right)</i>		O ₂ , dry: 15 %
	Nitrogen Oxides (as NO₂)		3.6 ppmvd 0.014 lb/MMBtu
	Carbon Monoxide		6 ppmvd 0.013 lb/MMBtu
	Volatile Organic Compounds (as CH₄)		2 ppmvd 0.003 lb/MMBtu
	Type: Natural gas		
	Higher Heating Value: Btu/scf		Sulfur Content: <0.25 gr/100 scf
	Exhaust Data	Flow: acfm	Temp: F O ₂ , dry: %
	Emission Data <i>(If corrected to other than 3% O₂, dry basis, indicate at right)</i>		O ₂ , dry: 15 %
	Nitrogen Oxides (as NO₂)		ppmvd lb/MMBtu
	Carbon Monoxide		ppmvd lb/MMBtu
	Volatile Organic Compounds (as CH₄)		ppmvd lb/MMBtu

Please Continue on Reverse Side

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Liquid Fuel Burner	Manufacturer:			
	Model:		Serial No.:	
	Maximum Heat Input Rating:			Btu/hr
	Flue Gas Recirculation: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Forced <input type="checkbox"/> Induced %			
	O ₂ Controller: <input type="checkbox"/> Yes <input type="checkbox"/> No		Manufacturer:	
Primary Fuel	Type:		API Gravity:	
	Higher Heating Value: Btu/gal		Sulfur Content: % by Wt	
	Exhaust Data	Flow: acfm	Temp: °F	O ₂ , dry: %
	Emission Data (If corrected to other than 3% O ₂ , dry basis, indicate at right)			O ₂ , dry: %
	Nitrogen Oxides (as NO₂)		ppmvd	lb/MMBtu
	Carbon Monoxide		ppmvd	lb/MMBtu
	Volatile Organic Compounds (as CH₄)		ppmvd	lb/MMBtu
Secondary Fuel	Type:		API Gravity:	
	Higher Heating Value: Btu/gal		Sulfur Content: % by Wt	
	Exhaust Data	Flow: acfm	Temp: °F	O ₂ , dry: %
	Emission Data (If corrected to other than 3% O ₂ , dry basis, indicate at right)			O ₂ , dry: %
	Nitrogen Oxides (as NO₂)		ppmvd	lb/MMBtu
	Carbon Monoxide		ppmvd	lb/MMBtu
	Volatile Organic Compounds (as CH₄)		ppmvd	lb/MMBtu

ADDITIONAL INFORMATION

- Operating Schedule:** 24 Hours per day 7 Days per week 52 Weeks per year. 8,000 hours/
- Fuel Flow Meter(s):** ☒ Gaseous Fuel ☐ Liquid Fuel year
- Nearest Receptor:**

Distance to nearest Residence¹ 7920 feet

Distance to nearest Business² 3696 feet

¹ Examples of Residences includes apartments, houses, dormitories, etc.

² Examples of Businesses includes office buildings, guard posts, factories, etc.

- Stack Parameters:** Height 85 feet Inside diameter 126 inches
Is a rain cap present on exhaust stack? ☐ Yes ☒ No
Direction of exhaust from structure or device: ☒ Vertical ☐ Horizontal

- Facility Location:** ☐ Urban (area of dense population) ☒ Rural (area of sparse population)

- Describe any additional air pollution control equipment or technologies, including control efficiencies, on a separate sheet and submit it along with this form.**

See CEC Application For Certification – Henrietta Peaker Project, submitted August 27, 2001

San Joaquin Valley Unified Air Pollution Control District
Supplemental Application Form
LIQUID FUELED
INTERNAL COMBUSTION ENGINES

This form must be accompanied by a completed Application for Authority to Construct and Permit to Operate form.

PERMIT TO BE ISSUED TO:

GWF Energy LLC

LOCATION WHERE THE EQUIPMENT WILL BE OPERATED:

25th AVE, 1 mile south of SR 198

NW 34 19S 19E

PROCESS DESCRIPTION

Type of Use	<input type="checkbox"/> Full Time (not limited to any operating schedule) <input type="checkbox"/> Low Use (limited to <1000 hrs/yr for all operation, including maintenance and testing) <input type="checkbox"/> Standby Emergency (limited to non-utility electric power generation or other emergency use as approved by the APCO, except for up to 200 hrs/yr for maintenance and testing) Will this equipment be used in an electric utility rate reduction program? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
Process Data	Process the Engine Serves: EMERGENCY BACK-UP POWER FOR HEP		
	Electrical Power	Generator Make and Model: CATERPILLAR	
	Generation Only	Power Output: 250 kW	

EQUIPMENT DESCRIPTION

Engine Data	Manufacturer: CATERPILLAR OR EQUAL		Number of Cylinders: 6
	Model Number: 3306 ATAAC OR EQUAL		Serial Number:
	Maximum Rated Power Output 382 HP		
Fuel Data	Type: <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Gasoline <input type="checkbox"/> Other (please specify):		
	Higher Heating Value: 137,000 BTU/gal		Sulfur Content: 0.05 % by Weight
	Fuel Consumption at Rated Output: 19 gals/hr		Fuel Flow Meter? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Engine Design and Emission Control Equipment (Check all applicable boxes)

	<input type="checkbox"/> Turbocharger
	<input type="checkbox"/> Intercooler/Aftercooler
	<input type="checkbox"/> Positive Crankcase Ventilation System
	<input type="checkbox"/> Exhaust Particulate Control Device: Specify manuf. and model _____
	<input type="checkbox"/> Oxidation Catalyst (VOC & CO Reduction) _____ % VOC control _____ % CO control
	<input type="checkbox"/> Reduction Catalyst (NOx Reduction) _____ % NOx control
	<input type="checkbox"/> Other (please specify): ENGINE WILL BE DESIGNED TO COMPLY WITH DISTRICT BACT

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Exhaust Emission Data (at maximum rated power output) <i>(If corrected to other than 15% O₂, dry basis, indicate at right)</i>				O ₂ , dry: 10.1 %
Nitrogen Oxides (as NO₂)	853	ppmvd	5.09	g/BHP-hr
Carbon Monoxide	310	ppmvd	1.13	g/BHP-hr
Volatile Organic Compounds (as CH₄)	69	ppmvd	0.14	g/BHP-hr
Particulate Matter Emissions	0.02	gr/dscf	0.13	g/BHP-hr
Sulfur Oxides (as SO₂)	2.26	ppmvd	0.02	g/BHP-hr

Source of Emission Factor	<input type="checkbox"/> Emission Tests <input checked="" type="checkbox"/> Manufacturer's Guarantee <input type="checkbox"/> EPA Certified <input type="checkbox"/> Other:
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ADDITIONAL INFORMATION

1. Normal Operating Schedule: (for emergency equipment, identify normal testing and maintenance schedule)

24* Hours per day 7* Days per week 52* Weeks per year.
*Not to exceed 13 hrs/year

2. Nearest Receptor:

Distance to nearest Residence¹ 7920 feet
Distance to nearest Business² 3696 feet
Distance to nearest property line³ _____ feet
¹ Examples of Residences includes apartments, houses, dormitories, K-12 school, etc.
² Examples of Businesses includes office buildings, guard posts, factories, etc.
³ Distance from the exhaust stack to the property line

3. Stack Parameters:

Height above grade: 7.5 feet
Inside diameter: 5 inches
Exhaust temperature: 994 °F
Stack gas flow rate: 655 dscfm
Is a rain cap (other than a flapper) present on exhaust stack? ☐ Yes ☒ No
Exhaust direction: ☒ Vertical ☐ Horizontal

4. Facility Location: ☐ Urban (area of dense population) ☒ Rural (area of sparse population)

5. If available, include the manufacturer's specifications and/or documented exhaust emissions data for the proposed engine.

DISTRICT USE ONLY

Date: _____ Engineer Name: _____ Public Notice: <input type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____ _____ _____	Facility ID #: _____ Project #: _____
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